

In the Claims

Please amend Claims 30 and 44 as follows:

1 30. (Once Amended) A lead-acid cell for a battery comprising a container, at
2 least one positive plate and at least one positive negative plate disposed within the
3 container, a separator disposed within the container and separating the at least one positive
4 and the at least one negative plate, the positive plate comprising a grid supporting structure
5 having a layer of active material coupled thereto, the grid supporting structure comprising:
6 a lead-based alloy comprising lead:
7 tin in the range of about 0.8% to about 1.1%;
8 calcium in an amount such that the ratio of tin to calcium is greater than
9 about 12:1;
10 silver in the range of greater than 0 to about 0.02%;
11 wherein the percentages are based upon the total weight of the lead-based
12 alloy.

13 44. (Once Amended) A grid supporting structure for use in a lead-acid battery
14 having at least one positive plate and at least one negative plate disposed within the
15 container, a separator disposed within the container and separating the at least one positive
16 plate and the at least one negative plate, the grid supporting structure having a layer of
17 active material pasted thereto, the grid supporting structure comprising:
18 a lead-based alloy consisting essentially of lead;
19 tin in the range of about 0.8% to about 1.1%;
20 calcium in an amount such that the ratio of tin to calcium is greater than
21 about 12:1;
22 silver in the range of greater than 0 to about 0.02%;
23 wherein the percentages are based upon the total weight of the lead-based
24 alloy.

Please add new Claims 57-71 as follows:

57. A plate for use in a battery comprising a lead-based alloy consisting

essentially of:

tin in an amount of about 0.8% to about 1.1%;

calcium in an amount such that the ratio of tin to calcium is greater than

about 12:1;

silver in an amount of greater than 0 to 0.015%;

wherein the percentages are based on the total weight of the lead based alloy.

58. The plate of Claim 57 further comprising a separator adjacent the plate.

59. The plate of Claim 58 further comprising active material coupled to the plate.

60. The plate of Claim 59 wherein the silver is in an amount of about 0.005 to 0.015%.

61. The plate of Claim 58 wherein the silver is in an amount of about 0.008 to 0.015%.

62. The plate of Claim 58 further comprising aluminum in an amount of about 0.008 to 0.03%.

63. The plate of Claim 56 wherein the ratio of tin to calcium is not less than 15:1.

64. The plate of Claim 58 wherein the ratio of tin to calcium is not less than 20:1.

65. The plate of Claim 58 wherein calcium is present in an amount of about 0.03% to about 0.055% and the ratio of tin to calcium is not less than 15:1.

66. The plate of Claim 58 wherein calcium is present in an amount of about 0.03% to about 0.055% and the ratio of tin to calcium is not less than 20:1.

1 67. The plate of Claim 58 further comprising about 0.008% to 0.03% aluminum.

1 68. The plate of Claim 58 wherein the plate is contained in a maintenance free
2 battery.

1 69. The plate of Claim 58 wherein the plate is contained in a sealed battery.

1 70. The plate of Claim 58 further comprising a container for an automotive
2 battery.

1 71. The plate of Claim 30 wherein the silver is in an amount of about 0.015 to
2 0.02%.